ATTACHMENT 5

November 2009 - Groundwater Sample Information Sheets

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 109 D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	34.67 ft
Depth to product	_____ ft
Depth to water (DTW)	20.45 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⟸OR⟹ Micropurge sampling

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV =	gal
3 Well volumes = =	gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	31.67 (S) 17.45 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.64	14.69	14.70	14.70	14.68		
Spec. Cond (µmhos)	+/- 3%	.918	.930	.946	.950	.957		
D.O. (mg/L)	+/- 10%**	.41	.35	.34	.32	.31		
pH	+/- 0.1	7.15	7.15	7.15	7.15	7.15		
ORP (mV)	+/- 10 mV**	59	89	55	87	57		
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 9 : 50 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: missing cover for well

Signature: J. Julie Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP | KEI Project #: 2829e-001/003
Sample I.D.:MW- 169s | Well Location:

Monitoring Well Data			Sample Types (circle all applicable)
Well Material	(PVC/SS/Teflon)		Monitoring Well
Inside Diameter, in.	(1 (2) 4 6)		Grab/Composite
Stick up or stick down height		ft	Split Sample
Total depth of well (TD)	23.21	ft	Duplicate (Duplicate ID: _____)
Depth to product		ft	MS/MSD
Depth to water (DTW)	20.39	ft	Other_____

Conventional sampling			⇐OR⇒	Micropurge sampling		
Height of water column (H = TD – DTW)		ft		Depth of pump placement (place mid-screen)	20.21	ft
Conversion value (CV)*	X 0.04			Bubbles purged from flow cell?	(Y)/ N	
1 Well volume = H x CV =		gal		Is drawdown >0.3 feet	(Y)/ N	
3 Well volumes =	=	gal		Was passive sampling used?	Y /(N)	
Purge method				Flowrate =		mL/min
(B = bailer, P = pump)	B / P			ID number from controller console #		

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

.eld Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.47	15.46	15.45				
Spec. Cond. (μmhos)	+/- 3%	.957	.955	.950				
D.O. (mg/L)	+/- 10%**	.85	.85	.86				
pH	+/- 0.1	7.03	7.04	7.03				
ORP (mV)	+/- 10 mV**	170	171	172				
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only <u>one</u> of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 10 : 20 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 170s	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	26.54 ft
Depth to product	ft
Depth to water (DTW)	21.13 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split-Sample
Duplicate (Duplicate ID: (Dup-01)   )
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling		
Height of water column (H = TD − DTW)		ft
Conversion value (CV)*	X	0.04
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)		B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	23.54 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y)/ N
Was passive sampling used?	Y /(N)
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.55	15.55	15.55	15.57			
Spec. Cond (μmhos)	+/- 3%	1.72	1.72	1.72	1.74			
D.O. (mg/L)	+/- 10%**	1.31	.54	.52	.51			
pH	+/- 0.1	7.06	7.05	7.04	7.04			
ORP (mV)	+/- 10 mV**	278	278	278	278			
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _N/A_ gallons
Sample Date: _11/ 3 /2009_ Sample Time: _11_ : _00_ (military time)
Was metals sample filtered prior to preservation?   YES   (NO)   method: 0.45 μm cartridge / other: _____
Color of water before filtration:_N/A_   After filtration: _N/A_
Reaction upon addition of preservatives?___YES (NO)   explain:_____N/A_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature:_____   Date: _11/3/09_

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- i7D ϡ	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1②4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	38.45 ft
Depth to product	_____ ft
Depth to water (DTW)	21.11 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling   ⇐OR⇒   Micropurge sampling

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X	0.04
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling	
Depth of pump placement (place mid-screen)	35.45 ft
Bubbles purged from flow cell?	Ⓨ/ N
Is drawdown >0.3 feet	Ⓨ/ N
Was passive sampling used?	Y /Ⓝ
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023   1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.29	15.31	15.34	—	—	—	—
Spec. Cond (µmhos)	+/- 3%	1.80	1.80	1.80	—	—	—	—
D.O. (mg/L)	+/- 10%**	.81	.78	.64	—	—	—	—
pH	+/- 0.1	7.12	7.12	7.12	—	—	—	—
ORP (mV)	+/- 10 mV**	132	132	131	—	—	—	—
Turbidity (NTU)	+/- 10%**	—	—	—	—	—	—	—
H2S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: __N/A__ gallons
Sample Date: 11/ 3 /2009 Sample Time: 11 : 30 (military time)
Was metals sample filtered prior to preservation?   YES   Ⓝ⊙   method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A   After filtration: N/A
Reaction upon addition of preservatives?   YES   Ⓝ⊙   explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 16 15	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	___ ft
Total depth of well (TD)	21.73 ft
Depth to product	___ ft
Depth to water (DTW)	18.41 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)			B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	18.73	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.27	15.53	15.99	15.97	15.93	___	___
Spec. Cond (µmhos)	+/- 3%	1.85	1.56	1.83	1.83	1.84	___	___
D.O. (mg/L)	+/- 10%**	1.11	.94	.57	.56	.55	___	___
pH	+/- 0.1	6.91	6.90	6.42	6.42	6.42	___	___
ORP (mV)	+/- 10 mV**	257	228	213	213	213	___	___
Turbidity (NTU)	+/- 10%**	___	___	___	___	___	___	___
H₂S (mg/L)		___	___	___	___	___	___	___
Fe²⁺ (mg/L)		___	___	___	___	___	___	___

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 11 : 40 (military time)
Was metals sample filtered prior to preservation?   YES (NO)   method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A   After filtration: N/A
Reaction upon addition of preservatives?   YES (NO)   explain: N/A
Appearance of Water: ((Clear)/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 167 ᴅ	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 ② 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	34.67 ft
Depth to product	_____ ft
Depth to water (DTW)	20.45 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: (D-p-22)   )
MS/MSD
Other_____

Conventional sampling

⇐OR⇒

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV =	gal
3 Well volumes = =	gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	31.67 ft
Bubbles purged from flow cell?	Ⓨ / N
Is drawdown >0.3 feet	Ⓨ / N
Was passive sampling used?	Y / Ⓝ
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.79	15.80	15.81	___	___	___	___
Spec. Cond (µmhos)	+/- 3%	.981	.981	.986	___	___	___	___
D.O. (mg/L)	+/- 10%**	.61	.55	.52	___	___	___	___
pH	+/- 0.1	7.24	7.29	7.29	___	___	___	___
ORP (mV)	+/- 10 mV**	127	126	126	___	___	___	___
Turbidity (NTU)	+/- 10%**	___	___	___	___	___	___	___
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 12 : 10 (military time)
Was metals sample filtered prior to preservation? YES ⓃO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES ⓃO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: _J. Julius_   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 165s	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1②4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	19.47 ft
Depth to product	_____ ft
Depth to water (DTW)	14.09 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X	0.04
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling		
Depth of pump placement (place mid-screen)	16.47	ft
Bubbles purged from flow cell?	Ⓨ/ N	
Is drawdown >0.3 feet	Ⓨ/ N	
Was passive sampling used?	Y /Ⓝ	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	18.47	18.52	18.49				
Spec. Cond (µmhos)	+/- 3%	.631	.631	.634				
D.O. (mg/L)	+/- 10%**	.63	.60	.58				
pH	+/- 0.1	7.46	7.46	7.46				
ORP (mV)	+/- 10 mV**	117	117	115				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 12 : 30 (military time)
Was metals sample filtered prior to preservation? YES ⓃⓄ method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES ⓃⓄ explain: N/A
Appearance of Water: ((Clear)Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julian   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 1650	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	46.33 ft
Depth to product	ft
Depth to water (DTW)	13.58 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV =	gal
3 Well volumes =	gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	43.33 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.97	15.97	15.97				
Spec. Cond (μmhos)	+/- 3%	.819	.822	.820				
D.O. (mg/L)	+/- 10%**	.53	.52	.50				
pH	+/- 0.1	7.39	7.38	7.38				
ORP (mV)	+/- 10 mV**	96	95	96				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 13 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 166D	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	49.44 ft
Depth to product	ft
Depth to water (DTW)	14.66 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV =	gal
3 Well volumes =	gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	46.44 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y)/ N
Was passive sampling used?	Y /(N)
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.53	15.53	15.52	15.51	15.47	15.44	
Spec. Cond (µmhos)	+/- 3%	.910	.942	.955	.978	.978	.980	
D.O. (mg/L)	+/- 10%**	1.01	.99	.95	.63	.62	.66	
pH	+/- 0.1	7.35	7.34	7.34	7.34	7.34	7.34	
ORP (mV)	+/- 10 mV**	132	123	119	110	111	111	
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: __N/A__ gallons
Sample Date: 11/ 3 /2009 Sample Time: 13 :30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: __N/A__ After filtration: __N/A__
Reaction upon addition of preservatives? YES (NO) explain:____N/A____
Appearance of Water: ((Clear)/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: _J. Julius_   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ᵢcility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 166S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)	
Inside Diameter, in.	(1 2 4 6)	
Stick up or stick down height		ft
Total depth of well (TD)	18.98	ft
Depth to product		ft
Depth to water (DTW)	14.98	ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	15.98	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ᵢeld Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.64	17.67	17.70				
Spec. Cond (µmhos)	+/- 3%	1.056	1.052	1.049				
D.O. (mg/L)	+/- 10%**	.89	.55	.83				
pH	+/- 0.1	7.09	7.09	7.09				
ORP (mV)	+/- 10 mV**	207	208	210				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 13 : 45 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: J. Julius Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 154	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	20.40 ft
Depth to product	ft
Depth to water (DTW)	13.65 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	17.65 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y)/ N
Was passive sampling used?	Y /(N)
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range ·	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.89	15.89	15.80	15.89	15.86		
Spec. Cond (µmhos)	+/- 3%	2.51	2.57	2.40	2.47	2.47		
D.O. (mg/L)	+/- 10%**	1.27	1.35	1.50	1.48	1.47		
pH	+/- 0.1	7.37	7.37	7.37	7.37	7.37		
ORP (mV)	+/- 10 mV**	304	290	289	286	285		
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 14 : 10 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ıcility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- i ʸ 7	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	25.47 ft
Depth to product	ft
Depth to water (DTW)	11.21 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)* X 0.04	
1 Well volume = H x CV =	gal
3 Well volumes = =	gal
Purge method (B = bailer, P = pump) B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	25.47 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.92	15.55	15.85	___	___	___	___
Spec. Cond (µmhos)	+/- 3%	2.12	2.12	2.12	___	___	___	___
D.O. (mg/L)	+/- 10%**	.60	.59	.57	___	___	___	___
pH	+/- 0.1	7.06	7.04	7.05	___	___	___	___
ORP (mV)	+/- 10 mV**	122	122	121	___	___	___	___
Turbidity (NTU)	+/- 10%**	___	___	___	___	___	___	___
H_2S (mg/L)		___	___	___	___	___	___	___
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/3 /2009 Sample Time: 14 : 35 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain:_____ N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature:_____ Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 132	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.82 ft
Depth to product	ft
Depth to water (DTW)	11.25 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X 0.04	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.82 ft
Bubbles purged from flow cell?	(Y)/ N
Is drawdown >0.3 feet	(Y)/ N
Was passive sampling used?	Y /(N)
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	18.10	18.15	18.16	18.17			
Spec. Cond (μmhos)	+/- 3%	1.49 1.52	1.52	1.52	1.53			
D.O. (mg/L)	+/- 10%**	1.90	1.76	1.67	1.60			
pH	+/- 0.1	7.24	7.23	7.23	7.22			
ORP (mV)	+/- 10 mV**	235	234	235	235			
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only <u>one</u> of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 3 /2009 Sample Time: 15 : 00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: J. Julin   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- ~~132~~ 148	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	____ ft
Total depth of well (TD)	24.39 ~~15.82~~ ft
Depth to product	(SS) ____ ft
Depth to water (DTW)	~~4.25~~ 11.17 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)* X 0.04	
1 Well volume = H x CV =	gal
3 Well volumes = =	gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling	
Depth of pump placement (place mid-screen)	(SS) ~~15.82~~ 21.39 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.73	15.73	15.78				
Spec. Cond (µmhos)	+/- 3%	1.56	1.54	1.53				
D.O. (mg/L)	+/- 10%**	.71	.70	.68				
pH	+/- 0.1	7.02	7.03	7.0				
ORP (mV)	+/- 10 mV**	224	224	224				
Turbidity (NTU)	+/- 10%**							
H2S (mg/L)								
Fe2+ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/3/2009 Sample Time: 15 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 153	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	19.73 ft
Depth to product	_____ ft
Depth to water (DTW)	12.05 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: (Dup-03)   )
MS/MSD
Other_____

Conventional sampling   ⇐OR⇒

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	16.73	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.55	15.92	15.94				
Spec. Cond (μmhos)	+/- 3%	1.85	1.84	1.84				
D.O. (mg/L)	+/- 10%**	4.44	4.46	4.43				
pH	+/- 0.1	7.40	7.46	7.46				
ORP (mV)	+/- 10 mV**	262	263	263				
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 11/3/2009 Sample Time: 16 : 00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other:_____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain:_____ N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition:OK

Signature: J. Julian   Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 302	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	37.59 ft
Depth to product	_____ ft
Depth to water (DTW)	12.48 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling

⇐OR⇒

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	34.59	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.15	15.22	15.21				
Spec. Cond (µmhos)	+/- 3%	.697	.695	.695				
D.O. (mg/L)	+/- 10%**	1.87	1.86	1.86				
pH	+/- 0.1	7.57	7.57	7.57				
ORP (mV)	+/- 10 mV**	119	119	120				
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 11/ 3 /2009 Sample Time: 16 :30 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition:OK

Signature: J. Julino Date: 11/3/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- _133R_	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	____ ft
Total depth of well (TD)	15.94 ft
Depth to product	____ ft
Depth to water (DTW)	9.51 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	12.94	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	18.98	19.02	19.03				
Spec. Cond (µmhos)	+/- 3%	1.430	1.431	1.425				
D.O. (mg/L)	+/- 10%**	2.78	2.78	2.79				
pH	+/- 0.1	7.16	7.17	7.17				
ORP (mV)	+/- 10 mV**	404	403	403				
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only <u>one</u> of these parameters must reach stability.

Observations:
Volume of water purged from well: _N/A_ gallons
Sample Date: 11/_4_/2009 Sample Time: _9_ : _30_ (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration:_N/A_ After filtration: _N/A_
Reaction upon addition of preservatives? YES (NO) explain:____ N/A ____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius   Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ᵢcility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- *175*	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	26.00 ft
Depth to product	ft
Depth to water (DTW)	8.93 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	23.00 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ᵢeld Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.08	15.07	15.06	—	—	—	—
Spec. Cond (μmhos)	+/- 3%	1.87	1.87	1.87	—	—	—	—
D.O. (mg/L)	+/- 10%**	.64	.61	.60	—	—	—	—
pH	+/- 0.1	7.13	7.13	7.13	—	—	—	—
ORP (mV)	+/- 10 mV**	128	127	127	—	—	—	—
Turbidity (NTU)	+/- 10%**	—	—	—	—	—	—	—
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: __N/A__ gallons
Sample Date: 11/ 4 /2009 Sample Time: 10 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration:__N/A__ After filtration: __N/A__
Reaction upon addition of preservatives? YES NO explain:____N/A____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature:_____ Date:__11/4/09__

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 152	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	15.50 ft
Depth to product	ft
Depth to water (DTW)	13.67 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X 0.04	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	15.50	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.43	17.40	17.42	17.41			
Spec. Cond (µmhos)	+/- 3%	.615	.617	.617	.616			
D.O. (mg/L)	+/- 10%**	3.45	3.06	3.00	2.99			
pH	+/- 0.1	7.36	7.36	7.36	7.36			
ORP (mV)	+/- 10 mV**	250	250	252	251			
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 10 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julim   Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 14b	Well Location:

Monitoring Well Data
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.13 ft
Depth to product	ft
Depth to water (DTW)	9.66 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling

Height of water column (H = TD − DTW)		ft
Conversion value (CV)*	X 0.04	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	20.13 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.51	14.49	14.50	—	—	—	—
Spec. Cond. (µmhos)	+/- 3%	1.146	1.136	1.135	—	—	—	—
D.O. (mg/L)	+/- 10%**	.60	.55	.53	—	—	—	—
pH	+/- 0.1	7.04	7.04	7.04	—	—	—	—
ORP (mV)	+/- 10 mV**	326	326	325	—	—	—	—
Turbidity (NTU)	+/- 10%**				—	—	—	—
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/4/2009 Sample Time: 11 : 00 (military time)
Was metals sample filtered prior to preservation?   YES   NO   method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A   After filtration: N/A
Reaction upon addition of preservatives?   YES   NO   explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: _J. Julien_   Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 15D	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)
Inside Diameter, in.	(1(2)4 6)
Stick up or stick down height	ft
Total depth of well (TD)	15.35 ft
Depth to product	ft
Depth to water (DTW)	13.13 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

⇐OR⇒

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	15.35	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console #		

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.66	16.66	16.66				
Spec. Cond (µmhos)	+/- 3%	.939	.939	.942				
D.O. (mg/L)	+/- 10%**	.62	.65	.65				
pH	+/- 0.1	7.17	7.17	7.17				
ORP (mV)	+/- 10 mV**	265	261	260				
Turbidity (NTU)	+/- 10%**							
H_2S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: __N/A__ gallons
Sample Date: 11/4/2009 Sample Time: 11 : 30 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: __N/A__ After filtration: __N/A__
Reaction upon addition of preservatives? YES (NO) explain: __N/A__
Appearance of Water: (Clear/Slightly (Turbid)/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julins   Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

icility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 135	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	____ ft
Total depth of well (TD)	15.55 ft
Depth to product	____ ft
Depth to water (DTW)	13.35 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)	____ ft
Conversion value (CV)*	X 0.04
1 Well volume = H x CV =	____ gal
3 Well volumes = =	____ gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	15.55 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	____ mL/min
ID number from controller console	# ____

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.51	16.50	16.52	___	___	___	___
Spec. Cond (μmhos)	+/- 3%	.594	.593	.594	___	___	___	___
D.O. (mg/L)	+/- 10%**	4.67	4.65	4.64	___	___	___	___
pH	+/- 0.1	7.36	7.37	7.36	___	___	___	___
ORP (mV)	+/- 10 mV**	323	323	322	___	___	___	___
Turbidity (NTU)	+/- 10%**	___	___	___	___	___	___	___
H₂S (mg/L)		___	___	___	___	___	___	___
Fe²⁺ (mg/L)		___	___	___	___	___	___	___

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 12 :00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julin Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- _IW-2_	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	16.71 ft
Depth to product	ft
Depth to water (DTW)	12.90 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling			
Height of water column (H = TD − DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling		
Depth of pump placement (place mid-screen)	13.71	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.80	16.80	16.84	—	—	—	—
Spec. Cond (μmhos)	+/- 3%	.707	.709	.712	—	—	—	—
D.O. (mg/L)	+/- 10%**	.93	.88	.86	—	—	—	—
pH	+/- 0.1	7.32	7.32	7.32	—	—	—	—
ORP (mV)	+/- 10 mV**	334	334	333	—	—	—	—
Turbidity (NTU)	+/- 10%**	—	—	—	—	—	—	—
H2S (mg/L)		—	—	—	—	—	—	—
Fe2+ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: _N/A_ gallons
Sample Date: 11/ 4 /2009 Sample Time: 12 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration:_N/A_ After filtration:_N/A_
Reaction upon addition of preservatives? YES NO explain:_____N/A_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature:_____J. Julin_____ Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- $\overline{I}w - 1$	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 ② 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	14.71 ft
Depth to product	_____ ft
Depth to water (DTW)	11.43 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling   ⇐OR⇒

Height of water column (H = TD – DTW)	ft
Conversion value (CV)* X 0.04	
1 Well volume = H x CV =	gal
3 Well volumes = =	gal
Purge method (B = bailer, P = pump) B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	19.71 ft
Bubbles purged from flow cell?	Ⓨ/ N
Is drawdown >0.3 feet	Ⓨ/ N
Was passive sampling used?	Y /Ⓝ
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.55	17.63	17.63	___	___	___	___
Spec. Cond (μmhos)	+/- 3%	.829	.830	.832	___	___	___	___
D.O. (mg/L)	+/- 10%**	.51	.49	.47	___	___	___	___
pH	+/- 0.1	7.00	7.00	7.00	___	___	___	___
ORP (mV)	+/- 10 mV**	106	105	105	___	___	___	___
Turbidity (NTU)	+/- 10%**	___	___	___	___	___	___	___
H2S (mg/L)		___	___	___	___	___	___	___
Fe2+ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 13 : 00 (military time)
Was metals sample filtered prior to preservation?   YES   ⓃO   method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A   After filtration: N/A
Reaction upon addition of preservatives?   YES   ⓃO   explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius   Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 163	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon
Inside Diameter, in.	(1 ②4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.25 ft
Depth to product	ft
Depth to water (DTW)	11.21 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling		
Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X 0.04	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling	
Depth of pump placement (place mid-screen)	16.25 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.31	17.31	17.33				
Spec. Cond (µmhos)	+/- 3%	.812	.814	.815				
D.O. (mg/L)	+/- 10%**	.46	.43	.40				
pH	+/- 0.1	6.46	6.47	6.46				
ORP (mV)	+/- 10 mV**	205	202	201				
Turbidity (NTU)	+/- 10%**							
H$_2$S (mg/L)								
Fe^{2+} (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/4/2009 Sample Time: 13:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

:cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 173	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 (2) 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.45 ft
Depth to product	ft
Depth to water (DTW)	13.38 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X 0.04	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)	B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	14.45 ft
Bubbles purged from flow cell?	Y/N
Is drawdown >0.3 feet	Y/N
Was passive sampling used?	Y /N
Flowrate =	mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

:ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	17.04	17.03	17.01				
Spec. Cond (µmhos)	+/- 3%	.701	.697	.698				
D.O. (mg/L)	+/- 10%**	1.46	1.55	1.45				
pH	+/- 0.1	7.28	7.28	7.28				
ORP (mV)	+/- 10 mV**	268	268	268				
Turbidity (NTU)	+/- 10%**							
H2S (mg/L)								
Fe2+ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 14 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: _J. Juliun_ Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 15b	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	____ ft
Total depth of well (TD)	18.34 ft
Depth to product	____ ft
Depth to water (DTW)	12.21 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X	0.04
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)		B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.34	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.59	16.58	16.56				
Spec. Cond (μmhos)	+/- 3%	.792	.805	.800				
D.O. (mg/L)	+/- 10%**	1.42	1.32	1.31				
pH	+/- 0.1	7.24	7.24	7.24				
ORP (mV)	+/- 10 mV**	300	299	298				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 14 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 151	Well Location:

Monitoring Well Data

Well Material	(PVC)/SS/Teflon)
Inside Diameter, in.	(1(2)4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	19.45 ft
Depth to product	_____ ft
Depth to water (DTW)	13.06 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒

Height of water column (H = TD – DTW)		ft
Conversion value (CV)*	X	0.04
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)		B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	16.45	ft
Bubbles purged from flow cell?	(Y)/ N	
Is drawdown >0.3 feet	(Y)/ N	
Was passive sampling used?	Y /(N)	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.06	15.02	15.02	15.01			
Spec. Cond (µmhos)	+/- 3%	.903	.899	.898	.898			
D.O. (mg/L)	+/- 10%**	2.01	1.55	1.28	1.70			
pH	+/- 0.1	7.15	7.15	7.14	7.14			
ORP (mV)	+/- 10 mV**	326	326	325	325			
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 15:00 (military time)
Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES (NO) explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: J. Julien Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- _164_	Well Location:

Monitoring Well Data
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	___ ft
Total depth of well (TD)	24.77 ft
Depth to product	___ ft
Depth to water (DTW)	19.21 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

⇐OR⇒

Conventional sampling
Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV	=		gal
3 Well volumes =	=		gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling
Depth of pump placement (place mid-screen)	21.77	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	15.62	15.65	15.66				
Spec. Cond (µmhos)	+/- 3%	.863	.848	.862				
D.O. (mg/L)	+/- 10%**	.42	.40	.38				
pH	+/- 0.1	7.22	7.22	7.22				
ORP (mV)	+/- 10 mV**	320	319	319				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only <u>one</u> of these parameters must reach stability.

Observations:
Volume of water purged from well: _N/A_ gallons
Sample Date: 11/ 4 /2009 Sample Time: 15 : 30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration:_N/A_ After filtration:_N/A_
Reaction upon addition of preservatives? YES NO explain:_____N/A_____
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature:_J. Julius_ Date:_11/4/09_

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 157	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	_____ ft
Total depth of well (TD)	17.06 ft
Depth to product	_____ ft
Depth to water (DTW)	12.15 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling

Height of water column (H = TD − DTW)	_____ ft
Conversion value (CV)* X 0.04	
1 Well volume = H x CV =	_____ gal
3 Well volumes = =	_____ gal
Purge method (B = bailer, P = pump)	B / P

Micropurge sampling

Depth of pump placement (place mid-screen)	14.06 ft
Bubbles purged from flow cell?	Y / N
Is drawdown >0.3 feet	Y / N
Was passive sampling used?	Y / N
Flowrate =	_____ mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	14.47	1447	1447				
Spec. Cond (μmhos)	+/- 3%	.719	.720	.698				
D.O. (mg/L)	+/- 10%**	1.07	.90	.89				
pH	+/- 0.1	7.25	7.25	7.24				
ORP (mV)	+/- 10 mV**	332	331	331				
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.
**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009 Sample Time: 16 : 00 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 μm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: J. Julius Date: 11/4/09

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

.cility Name: GP	KEI Project #: 2829e-001/003
Sample I.D.:MW- 161	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	12.92 ft
Depth to product	ft
Depth to water (DTW)	4.08 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: (Dup 04))
MS/MSD
Other_____

Conventional sampling ⇐OR⇒ Micropurge sampling

Conventional sampling

Height of water column (H = TD – DTW)			ft
Conversion value (CV)*	X	0.04	
1 Well volume = H x CV		=	gal
3 Well volumes =		=	gal
Purge method (B = bailer, P = pump)		B / P	

Micropurge sampling

Depth of pump placement (place mid-screen)	9.92	ft
Bubbles purged from flow cell?	Y / N	
Is drawdown >0.3 feet	Y / N	
Was passive sampling used?	Y / N	
Flowrate =		mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

ield Test(s) Performed	Stability Range	Result (3 min)	Result (6 min)	Result (9 min)	Result (12 min)	Result (15 min)	Result (18 min)	Result (21 min)
Temperature (°C)	+/- 3%	16.16	16.16	16.18	16.18	16.16		
Spec. Cond (µmhos)	+/- 3%	.595	.899	.901	.906	.910		
D.O. (mg/L)	+/- 10%**	5.20	4.79	4.75	4.72	4.69		
pH	+/- 0.1	7.08	7.05	7.07	7.06	7.07		
ORP (mV)	+/- 10 mV**	352	349	345	345	348		
Turbidity (NTU)	+/- 10%**							
H₂S (mg/L)								
Fe²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:
Volume of water purged from well: N/A gallons
Sample Date: 11/ 4 /2009   Sample Time: 16 : 30   (military time)
Was metals sample filtered prior to preservation?   YES   NO   method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A   After filtration: N/A
Reaction upon addition of preservatives?   YES   NO   explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition:OK

Signature: S. Julius   Date: 11/4/09